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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,183	10/06/2003	David Joseph Kropaczek	24GA5999	2333
33727 HARNESS, DI	7590 11/27/2007 CKEY & PIERCE, P.L.C.		EXAM	INER
P.O. BOX 8910 RESTON, VA 20195			PHAN, THAI Q	
RESTON, VA	20193		ART UNIT PAPER NUMBER	
			2128	
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·			MAIL DATE	DELIVERY MODE
			11/27/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	·	Application No.	Applicant(s)			
,		10/678,183	KROPACZEK ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Thai Phan	2128			
 Period for	The MAILING DATE of this communication app Reply	ears on the cover sheet with the c	orrespondence address			
WHICH - Extension after SI - If NO pe - Failure Any rep	RTENED STATUTORY PERIOD FOR REPLY EVER IS LONGER, FROM THE MAILING DATE on so of time may be available under the provisions of 37 CFR 1.13 (x (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, by received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠ R	esponsive to communication(s) filed on 03 A	<u>ugust 2007</u> .				
2a) <u></u> ⊤	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
С	losed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 49	53 O.G. 213.			
Dispositio	n of Claims					
4a 5)□ C 6)図 C 7)□ C	claim(s) 1-8,10,11 and 13-16 is/are pending in a) Of the above claim(s) is/are withdraw claim(s) is/are allowed. claim(s) 1-8,10,11 and 13-16 is/are rejected. claim(s) is/are objected to. claim(s) are subject to restriction and/o	wn from consideration.				
Application	n Papers					
10)□ TI A R	ne specification is objected to by the Examine ne drawing(s) filed on is/are: a) accomplicant may not request that any objection to the deplacement drawing sheet(s) including the correct ne oath or declaration is objected to by the Example.	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).			
Priority un	der 35 U.S.C. § 119					
12) A(a) 1 1 2 3	cknowledgment is made of a claim for foreign All b)	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s	s) of References Cited (PTO-892)	4) 🔲 Interview Summary				
2) Notice 3) Informa	of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

1. This communication is in response to Applicants' Appeal dated Aug. 3, 2008 (the "Appeal Brief").

In view of the Appeal Brief, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

- 2. To avoid abandonment of the application, appellant must exercise one of the flowing two options:
- (a) file a reply under 37 CFR 1.1 11 (if this Office action in non-final) or a reply under 37. CFR 1.1 13 (if this Office action is final); or,
 - (b) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2.

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4. Claims 1- 8, 10, 11 and 13-16 are rejected under 35 U.S.C. 102(e) as being anticipated by anticipated by Kropaczek et al, US patent no. 7,200,541.

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another." or by an appropriate showing under 37 CFR 1.131.

As per claim 1, Kropaczek anticipates a method for creating a nuclear reactor core design with template (Figs. 9-11) for storing design data or fuel bundle data with feature limitations very identical to the claimed invention, comprising: selectively assigning, using a graphical user interface providing a graphical representation of a nuclear reactor core (col. 3, lines 9-23, cols. 4-5, col. 15, lines 13-22), fuel bundle categories to fuel bundle positions in the graphical representation (col. 13, line 52 to col. 14, line 5) to create a template as shown in Figs. 12-13, having as constraints (col. 12, lines 5-16) that only a fuel bundle matching the assigned fuel bundle categories to the fuel bundle location or positions be allowed to be loaded in the fuel bundle position (col. 14, line 54 to col. 15, line 29, col. 16, lines 38-56).

As per claim 2, Kropaczek anticipates the method of claim 1, wherein the fuel bundle categories include fresh and locked, the fresh category indicating to insert an unexposed fuel bundle, the locked category indicating that a fuel bundle Currently occupying an associated fuel bundle position in an actual nuclear reactor core remains

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in that position in creating a new nuclear reactor core loading map (col. 16, lines 38-56).

As per claim 3, Kropaczek anticipates the method of claim 2, wherein the fuel bundle categories further include reinserted, the reinserted category indicates to insert a fuel bundle that has been exposed (col. 8, lines 23-40).

As per claim 4, the method of claim 1, wherein the selectively assigning step includes setting a bundle group amount for a selected one of the fuel bundle categories, and selectively assigning the set bundle group amount of the selected fuel bundle category (col. 16, lines 4-26).

As per claim 5, Kropaczek anticipates setting a symmetry associated with the bundle group in quadrants of the graphical representation (col. 7, lines 36-51).

As per claim 6, The method of claim 1, wherein at least one category is fresh, the fresh category indicating to insert an unexposed fuel bundle; and the selectively assigning step includes assigning a type designation to the fuel bundle positions assigned the fresh fuel bundle category (col. 3, lines 25-40, col. 7, lines 36-50).

As per claim 7, Kropaczek anticipates the method of claim 1, wherein at least one category is reinserted fuel bundles, the reinserted category indicates to insert a fuel bundle that has been exposed; and the selectively assigning step including manually assigning a priority to each of the fuel bundle positions assigned the reinserted category, the priority indicating an order for loading exposed fuel bundles based on an attribute of the exposed fuel bundles (col. 15, lines 44-61).

As per claim 8, the method of claim 1, wherein at least one category is

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reinserted fuel bundles; and the selectively assigning step including automatically assigning a priority to each of the fuel bundle positions assigned the reinserted category, the priority indicating an order for loading exposed fuel bundles based on an attribute of the exposed fuel bundles.

As per claim 10, Kropaczek anticipates the step of creating the template comprises editing an existing nuclear reactor core template by changing a fuel bundle category assigned to at least one fuel bundle position in the template (Figs. 12-13) having as constraints (col. 12, lines 5-16) that only a fuel bundle matching the assigned fuel bundle categories to the fuel bundle location or positions be allowed to be loaded in the fuel bundle position (col. 14, line 54 to col. 15, line 29, col. 16, lines 38-56).

As per claim 11, Kropaczek anticipates the method of claim 10, wherein the fuel bundle categories include at least one of fresh, locked and reinserted, the fresh category indicating to insert an unexposed fuel bundle, the locked category indicating that a fuel bundle currently occupying an associated fuel bundle position in an actual nuclear reactor core remains in that position in creating a new nuclear reactor core loading map, and the reinserted category indicates to insert a fuel bundle that has been exposed (Fig. 12, col. 13, line 53 to col. 15, line 12, col. 16, lines 40-55).

As per claim 13, the method of claim 10, wherein creating the existing nuclear reactor core template step comprises: accessing a database of templates; and selecting one of the templates for editing (Fig. 3, col. 5, lines 27-64).

As per claim 14, Kropaczek anticipates the method of claim 1, wherein the step of creating the template comprises: deriving a loading template from a loading map of a

selected cycle of nuclear reactor based on the user input parameters (Figs. 11, cols. 12-13).

As per claim 15, Kropaczek anticipates the method of claim 14, wherein the deriving step derives the loading template from the loading map of the selected cycle of the nuclear reactor and the loading map of a cycle previous to the selected cycle (cols. 12-14).

As per claim 16, Kropaczek anticipates an apparatus for creating a nuclear reactor core template comprising:

a graphical user interface; and a processor controlling the graphical user interface (Fig. 9, col. 7, lines 26-35) to display a graphical representation of a nuclear reactor core, and to provide a user with graphical tools for at least one of assigning fuel bundle categories to fuel bundle positions in the graphical representation and editing assigned fuel bundle categories to the fuel bundle positions in the graphical representation to create a template (cols. 7-9, Figs. 11) having as constraints that only a fuel bundle matching the assigned fuel bundle categories to the fuel bundle positions be allowed to be loaded in the fuel bundle position (col. 12, lines 5-16, col. 14, line 54 to col. 15, line 29, col. 16, lines 38-56).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US patent no. 7,222,061, issued to Russell et al, on May 2007

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai Phan whose telephone number is 571-272-3783. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamini Shah can be reached on 571-272-2279. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nov. 20, 2007

THAI PHAN
PRIMARY EXAMINER
PRIMOLOGY CENTER 2100